SEQUENCE LISTING

<110>  Geneprot, Inc.
       Bougueleret, Lydie
       Niknejad, Anne

<120>  Secreted peptides

<130>  5021-WO01

<150>  US 60/393,840
<151>  2002-07-02

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<170>  PatentIn version 3.1

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<213>  Homo Sapiens

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Met Arg Pro Arg Thr Lys Ala Arg Ser Pro Gly Arg Ala Leu Arg Asn
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Pro Trp Arg Gly Phe Leu Pro Leu Thr Leu Ala Leu Phe Val Gly Ala
            20                  25                  30


Gly His Ala Gln Arg Asp Pro Val Gly Arg Tyr Glu Pro Ala Gly Gly
        35                  40                  45


Asp Ala Asn Arg Leu Arg Arg Pro Gly Gly Ser Tyr Pro Ala Ala Ala
    50                  55                  60


Ala Ala Lys Val Tyr Ser Leu Phe Arg Glu Gln Asp Ala Pro Val Ala
65                  70                  75                  80


Gly Leu Gln Pro Val Glu Arg Ala Gln Pro Gly Trp Gly Ser Pro Arg
                85                  90                  95


Arg Pro Thr Glu Ala Glu Ala Arg Arg Pro Ser Arg Ala Gln Gln Ser
            100                 105                 110


Arg Arg Val Gln Pro Pro Ala Gln Thr Arg Arg Ser Thr Pro Leu Gly
        115                 120                 125


Gln Gln Gln Pro Ala Pro Arg Thr Arg Ala Ala Pro Ala Leu Pro Arg
    130                 135                 140


Leu Gly Thr Pro Gln Arg Ser Gly Ala Ala Pro Pro Thr Pro Pro Arg
145                 150                 155                 160


Gly Arg Leu Thr Gly Arg Asn Val Cys Gly Gly Gln Cys Cys Pro Gly
                165                 170                 175


Trp Thr Thr Ala Asn Ser Thr Asn His Cys Ile Lys Pro Val Cys Glu
            180                 185                 190

Pro Pro Cys Gln Asn Arg Gly Ser Cys Ser Arg Pro Gln Leu Cys Val
     195                    200                205

Cys Arg Ser Gly Phe Arg Gly Ala Arg Cys Glu Glu Val Ile Pro Asp
     210                    215                220

Glu Glu Phe Asp Pro Gln Asn Ser Arg Leu Ala Pro Arg Arg Trp Ala
225                230              235              240

Glu Arg Ser Pro Asn Leu Arg Arg Ser Ser Ala Ala Gly Glu Gly Thr
          245                250              255

Leu Ala Arg Ala Gln Pro Pro Ala Pro Gln Ser Pro Pro Ala Pro Gln
          260                265              270

Ser Pro Pro Ala Gly Thr Leu Ser Gly Leu Ser Gln Thr His Pro Ser
          275                280              285

Gln Gln His Val Gly Leu Ser Arg Thr Val Arg Leu His Pro Thr Ala
     290                    295              300

Thr Ala Ser Ser Gln Leu Ser Ser Asn Ala Leu Pro Pro Gly Pro Gly
305                310              315              320

Leu Glu Gln Arg Asp Gly Thr Gln Gln Ala Val Pro Leu Glu His Pro
          325                330              335

Ser Ser Pro Trp Gly Leu Asn Leu Thr Glu Lys Ile Lys Lys Ile Lys
          340                345              350

Ile Val Phe Thr Pro Thr Ile Cys Lys Gln Thr Cys Ala Arg Gly His
     355                    360              365

Cys Ala Asn Ser Cys Glu Arg Gly Asp Thr Thr Thr Leu Tyr Ser Gln
     370                    375              380

Gly Gly His Gly His Asp Pro Lys Ser Gly Phe Arg Ile Tyr Phe Cys
385                390              395              400

Gln Ile Pro Cys Leu Asn Gly Gly Arg Cys Ile Gly Arg Asp Glu Cys
          405                410              415

Trp Cys Pro Ala Asn Ser Thr Gly Lys Phe Cys His Leu Pro Ile Pro
          420                     425                 430

Gln Pro Asp Arg Glu Pro Pro Gly Arg Gly Ser Arg Pro Arg Ala Leu
          435                     440                 445

Leu Glu Ala Pro Leu Lys Gln Ser Thr Phe Thr Leu Pro Leu Ser Asn
          450                     455                 460

Gln Leu Ala Ser Val Asn Pro Ser Leu Val Lys Val His Ile His His
465                     470                 475                 480

Pro Pro Glu Ala Ser Val Gln Ile His Gln Val Ala Gln Val Arg Gly
              485                     490                 495

Gly Val Glu Glu Ala Leu Val Glu Asn Ser Val Glu Thr Arg Pro Pro
          500                     505                 510

Pro Trp Leu Pro Ala Ser Pro Gly His Ser Leu Trp Asp Ser Asn Asn
          515                     520                 525

Ile Pro Ala Arg Ser Gly Glu Pro Pro Arg Pro Leu Pro Pro Ala Ala
          530                     535                 540

Pro Arg Pro Arg Gly Leu Leu Gly Arg Cys Tyr Leu Asn Thr Val Asn
545                     550                 555                 560

Gly Gln Cys Ala Asn Pro Leu Leu Glu Leu Thr Thr Gln Glu Asp Cys
              565                     570                 575

Cys Gly Ser Val Gly Ala Phe Trp Gly Val Thr Leu Cys Ala Pro Cys
          580                     585                 590

Pro Pro Arg Pro Ala Ser Pro Val Ile Glu Asn Gly Gln Leu Glu Cys
          595                     600                 605

Pro Gln Gly Tyr Lys Arg Leu Asn Leu Thr His Cys Gln Asp Ile Asn
    610                     615                 620

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Glu Cys Leu Thr Leu Gly Leu Cys Lys Asp Ala Glu Cys Val Asn Thr
625             630             635             640

Arg Gly Ser Tyr Leu Cys Thr Cys Arg Pro Gly Leu Met Leu Asp Pro
                645             650             655

Ser Arg Ser Arg Cys Val Ser Asp Lys Ala Ile Ser Met Leu Gln Gly
            660             665             670

Leu Cys Tyr Arg Ser Leu Gly Pro Gly Thr Cys Thr Leu Pro Leu Ala
        675             680             685

Gln Arg Ile Thr Lys Gln Ile Cys Cys Cys Ser Arg Val Gly Lys Ala
    690             695             700

Trp Gly Ser Glu Cys Glu Lys Cys Pro Leu Pro Gly Thr Glu Ala Phe
705             710             715             720

Arg Glu Ile Cys Pro Ala Gly His Gly Tyr Thr Tyr Ala Ser Ser Asp
            725             730             735

Ile Arg Leu Ser Met Arg Lys Ala Glu Glu Glu Glu Leu Ala Arg Pro
        740             745             750

Pro Arg Glu Gln Gly Gln Arg Ser Ser Gly Ala Leu Pro Gly Pro Ala
    755             760             765

Glu Arg Gln Pro Leu Arg Val Val Thr Asp Thr Trp Leu Glu Ala Gly
    770             775             780

Thr Ile Pro Asp Lys Gly Asp Ser Gln Ala Gly Gln Val Thr Thr Ser
785             790             795             800

Val Thr His Ala Pro Ala Trp Val Thr Gly Asn Ala Thr Thr Pro Pro
                805             810             815

Met Pro Glu Gln Gly Ile Ala Glu Ile Gln Glu Glu Gln Val Thr Pro
            820             825             830

Ser Thr Asp Val Leu Val Thr Leu Ser Thr Pro Gly Ile Asp Arg Cys
            835             840             845
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Ala Ala Gly Ala Thr Asn Val Cys Gly Pro Gly Thr Cys Val Asn Leu
    850                 855                 860

Pro Asp Gly Tyr Arg Cys Val Cys Ser Pro Gly Tyr Gln Leu His Pro
865                 870                 875                 880

Ser Gln Ala Tyr Cys Thr Asp Asp Asn Glu Cys Leu Arg Asp Pro Cys
                885                 890                 895

Gln Gly Lys Gly Arg Cys Ile Asn Arg Val Gly Ser Tyr Ser Cys Phe
            900                 905                 910

Cys Tyr Pro Gly Tyr Thr Leu Ala Thr Ser Gly Ala Thr Gln Glu Cys
        915                 920                 925

Gln Asp Ile Asn Glu Cys Glu Gln Pro Gly Val Cys Ser Gly Gly Gln
    930                 935                 940

Cys Thr Asn Thr Glu Gly Ser Tyr His Cys Glu Cys Asp Gln Gly Tyr
945                 950                 955                 960

Ile Met Val Arg Lys Gly His Cys Gln Asp Ile Asn Glu Cys Arg His
                965                 970                 975

Pro Gly Thr Cys Pro Asp Gly Arg Cys Val Asn Ser Pro Gly Ser Tyr
            980                 985                 990

Thr Cys Leu Ala Cys Glu Glu Gly  Tyr Arg Gly Gln Ser  Gly Ser Cys
        995                 1000                1005

Val Asp  Val Asn Glu Cys Leu  Thr Pro Gly Val Cys  Ala His Gly
    1010             .         1015                1020

Lys Cys  Thr Asn Leu Glu Gly  Ser Phe Arg Cys Ser  Cys Glu Gln
    1025                 1030                1035

Gly Tyr  Glu Val Thr Ser Asp  Glu Lys Gly Cys Gln  Asp Val Asp
    1040                 1045                1050
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Glu Cys  Ala Ser Arg Ala Ser  Cys Pro Thr Gly Leu  Cys Leu Asn
    1055                1060              1065

Thr Glu  Gly Ser Phe Ala Cys  Ser Ala Cys Glu Asn  Gly Tyr Trp
    1070                1075              1080

Val Asn  Glu Asp Gly Thr Ala  Cys Glu Asp Leu Asp  Glu Cys Ala
    1085                1090              1095

Phe Pro  Gly Val Cys Pro Ser  Gly Val Cys Thr Asn  Thr Ala Gly
    1100                1105              1110

Ser Phe  Ser Cys Lys Asp Cys  Asp Gly Gly Tyr Arg  Pro Ser Pro
    1115                1120              1125

Leu Gly  Asp Ser Cys Glu Asp  Val Asp Glu Cys Glu  Asp Pro Gln
    1130                1135              1140

Ser Ser  Cys Leu Gly Gly Glu  Cys Lys Asn Thr Val  Gly Ser Tyr
    1145                1150              1155

Gln Cys  Leu Cys Pro Gln Gly  Phe Gln Leu Ala Asn  Gly Thr Val
    1160                1165              1170

Cys Glu  Asp Val Asn Glu Cys  Met Gly Glu Glu His  Cys Ala Pro
    1175                1180              1185

His Gly  Glu Cys Leu Asn Ser  His Gly Ser Phe Phe  Cys Leu Cys
    1190                1195              1200

Ala Pro  Gly Phe Val Ser Ala  Glu Gly Gly Thr Ser  Cys Gln Asp
    1205                1210              1215

Val Asp  Glu Cys Ala Thr Thr  Asp Pro Cys Val Gly  Gly His Cys
    1220                1225              1230

Val Asn  Thr Glu Gly Ser Phe  Asn Cys Leu Cys Glu  Thr Gly Phe
    1235                1240              1245

Gln Pro  Ser Pro Glu Ser Gly  Glu Cys Val Asp Ile  Asp Glu Cys
    1250                1255              1260

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Glu Asp   Tyr Gly Asp Pro Val   Cys Gly Thr Trp Lys   Cys Glu Asn
     1265                1270                  1275

Ser Pro   Gly Ser Tyr Arg Cys   Val Leu Gly Cys Gln   Pro Gly Phe
     1280                1285                  1290

His Met   Ala Pro Asn Gly Asp   Cys Ile Asp Ile Asp   Glu Cys Ala
     1295                1300                  1305

Asn Asp   Thr Met Cys Gly Ser   His Gly Phe Cys Asp   Asn Thr Asp
     1310                1315                  1320

Gly Ser   Phe Arg Cys Leu Cys   Asp Gln Gly Phe Glu   Ile Ser Pro
     1325                1330                  1335

Ser Gly   Trp Asp Cys Val Asp   Val Asn Glu Cys Glu   Leu Met Leu
     1340                1345                  1350

Ala Val   Cys Gly Ala Ala Leu   Cys Glu Asn Val Glu   Gly Ser Phe
     1355                1360                  1365

Leu Cys   Leu Cys Ala Ser Asp   Leu Glu Glu Tyr Asp   Ala Gln Glu
     1370                1375                  1380

Gly His   Cys Arg Pro Arg Gly   Ala Gly Gly Gln Ser   Met Ser Glu
     1385                1390                  1395

Ala Pro   Thr Gly Asp His Ala   Pro Ala Pro Thr Arg   Met Asp Cys
     1400                1405                  1410

Tyr Ser   Gly Gln Lys Gly His   Ala Pro Cys Ser Ser   Val Leu Gly
     1415                1420                  1425

Arg Asn   Thr Thr Gln Ala Glu   Cys Cys Cys Thr Gln   Gly Ala Thr
     1430                1435                  1440

Trp Gly   Asp Ala Cys Asp Leu   Cys Pro Ser Glu Asp   Ser Ala Glu
     1445                1450                  1455

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Phe Ser  Glu Ile Cys Pro Ser  Gly Lys Gly Tyr Ile  Pro Val Glu
    1460             1465             1470

Gly Ala  Trp Thr Phe Gly Gln  Thr Met Tyr Thr Asp  Ala Asp Glu
    1475             1480             1485

Cys Val  Ile Phe Gly Pro Gly  Leu Cys Pro Asn Gly  Arg Cys Leu
    1490             1495             1500

Asn Thr  Val Pro Gly Tyr Val  Cys Leu Cys Asn Pro  Gly Phe His
    1505             1510             1515

Tyr Asp  Ala Ser His Lys Lys  Cys Glu Asp His Asp  Glu Cys Gln
    1520             1525             1530

Asp Leu  Ala Cys Glu Asn Gly  Glu Cys Val Asn Thr  Glu Gly Ser
    1535             1540             1545

Phe His  Cys Phe Cys Ser Pro  Pro Leu Thr Leu Asp  Leu Ser Gln
    1550             1555             1560

Gln Arg  Cys Met Asn Ser Thr  Ser Ser Thr Glu Asp  Leu Pro Asp
    1565             1570             1575

His Asp  Ile His Met Asp Ile  Cys Trp Lys Lys Val  Thr Asn Asp
    1580             1585             1590

Val Cys  Ser Glu Pro Leu Arg  Gly His Arg Thr Thr  Tyr Thr Glu
    1595             1600             1605

Cys Cys  Cys Gln Asp Gly Lys  Ala Trp Ser Gln Gln  Cys Ala Leu
    1610             1615             1620

Cys Pro  Pro Arg Ser Ser Glu  Val Tyr Ala Gln Leu  Cys Asn Val
    1625             1630             1635

Ala Arg  Ile Glu Ala Glu Arg  Glu Ala Gly Val His  Phe Arg Pro
    1640             1645             1650

Gly Tyr  Glu Tyr Gly Pro Gly  Pro Asp Asp Leu His  Tyr Ser Ile
    1655             1660             1665
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Tyr Gly  Pro Asp Gly Ala Pro  Phe Tyr Asn Tyr Leu  Gly Pro Glu
    1670                 1675                 1680

Asp Thr  Val Pro Glu Pro Ala  Phe Pro Asn Thr Ala  Gly His Ser
    1685                 1690                 1695

Ala Asp  Arg Thr Pro Ile Leu  Glu Ser Pro Leu Gln  Pro Ser Glu
    1700                 1705                 1710

Leu Gln  Pro His Tyr Val Ala  Ser His Pro Glu Pro  Pro Ala Gly
    1715                 1720                 1725

Phe Glu  Gly Leu Gln Ala Glu  Glu Cys Gly Ile Leu  Asn Gly Cys
    1730                 1735                 1740

Glu Asn  Gly Arg Cys Val Arg  Val Arg Glu Gly Tyr  Thr Cys Asp
    1745                 1750                 1755

Cys Phe  Glu Gly Phe Gln Leu  Asp Ala Ala His Met  Ala Cys Val
    1760                 1765                 1770

Asp Val  Asn Glu Cys Asp Asp  Leu Asn Gly Pro Ala  Val Leu Cys
    1775                 1780                 1785

Val His  Gly Tyr Cys Glu Asn  Thr Glu Gly Ser Tyr  Arg Cys His
    1790                 1795                 1800

Cys Ser  Pro Gly Tyr Val Ala  Glu Ala Gly Pro Pro  His Cys Thr
    1805                 1810                 1815

Ala Lys  Glu
    1820


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<212>   PRT
<213>   Homo Sapiens

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Gln Arg Asp Pro Val Gly Arg Tyr Glu Pro Ala Gly Gly Asp Ala Asn
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Arg Leu Arg Arg Pro Gly Gly Ser Tyr Pro Ala Ala Ala Ala Ala Lys
            20                  25                  30


Val Tyr Ser Leu Phe Arg Glu Gln Asp Ala Pro Val Ala Gly Leu Gln
        35                  40                  45


Pro Val Glu Arg Ala Gln Pro Gly Trp Gly Ser Pro Arg Arg Pro Thr
    50                  55                  60


Glu Ala Glu Ala Arg Arg Pro Ser Arg Ala Gln Gln Ser Arg Arg Val
65                  70                  75                  80


Gln Pro Pro Ala Gln Thr Arg Arg Ser Thr Pro Leu Gly Gln Gln Gln
                85                  90                  95


Pro Ala Pro Arg Thr Arg Ala Ala Pro Ala Leu Pro Arg Leu Gly Thr
            100                 105                 110


Pro Gln Arg Ser Gly Ala Ala Pro Pro Thr Pro Pro Arg Gly Arg Leu
            115                 120                 125


Thr Gly Arg Asn Val Cys Gly Gly Gln Cys Cys Pro Gly Trp Thr Thr
    130                 135                 140


Ala Asn Ser Thr Asn His Cys Ile Lys Pro Val Cys Glu Pro Pro Cys
145                 150                 155                 160


Gln Asn Arg Gly Ser Cys Ser Arg Pro Gln Leu Cys Val Cys Arg Ser
                165                 170                 175


Gly Phe Arg Gly Ala Arg Cys Glu Glu Val Ile Pro Asp Glu Glu Phe
            180                 185                 190


Asp Pro Gln Asn Ser Arg Leu Ala Pro Arg Arg Trp Ala Glu Arg Ser

                195                          200                          205

        Pro Asn Leu Arg Arg Ser Ser Ala Ala Gly Glu Gly Thr Leu Ala Arg
             210                215                220

        Ala Gln Pro Pro Ala Pro Gln Ser Pro Pro Ala Pro Gln Ser Pro Pro
        225               230               235               240

        Ala Gly Thr Leu Ser Gly Leu Ser Gln Thr His Pro Ser Gln Gln His
                      245                250                255

        Val Gly Leu Ser Arg Thr Val Arg Leu His Pro Thr Ala Thr Ala Ser
                      260                265                270

        Ser Gln Leu Ser Ser Asn Ala Leu Pro Pro Gly Pro Gly Leu Glu Gln
                 275                280                285

        Arg Asp Gly Thr Gln Gln Ala Val Pro Leu Glu His Pro Ser Ser Pro
             290                295                300

        Trp Gly Leu Asn Leu Thr Glu Lys Ile Lys Lys Ile Lys Ile Val Phe
        305                310                315                320

        Thr Pro Thr Ile Cys Lys Gln Thr Cys Ala Arg Gly His Cys Ala Asn
                      325                330                335

        Ser Cys Glu Arg Gly Asp Thr Thr Thr Leu Tyr Ser Gln Gly Gly His
                 340                345                350

        Gly His Asp Pro Lys Ser Gly Phe Arg Ile Tyr Phe Cys Gln Ile Pro
                 355                360                365

        Cys Leu Asn Gly Gly Arg Cys Ile Gly Arg Asp Glu Cys Trp Cys Pro
             370                375                380

        Ala Asn Ser Thr Gly Lys Phe Cys His Leu Pro Ile Pro Gln Pro Asp
        385               390                395                400

        Arg Glu Pro Pro Gly Arg Gly Ser Arg Pro Arg Ala Leu Leu Glu Ala
                      405                410                415

Pro Leu Lys Gln Ser Thr Phe Thr Leu Pro Leu Ser Asn Gln Leu Ala
            420             425             430

Ser Val Asn Pro Ser Leu Val Lys Val His Ile His His Pro Pro Glu
            435             440             445

Ala Ser Val Gln Ile His Gln Val Ala Gln Val Arg Gly Gly Val Glu
            450             455             460

Glu Ala Leu Val Glu Asn Ser Val Glu Thr Arg Pro Pro Pro Trp Leu
465             470             475             480

Pro Ala Ser Pro Gly His Ser Leu Trp Asp Ser Asn Asn Ile Pro Ala
                485             490             495

Arg Ser Gly Glu Pro Pro Arg Pro Leu Pro Pro Ala Ala Pro Arg Pro
            500             505             510

Arg Gly Leu Leu Gly Arg Cys Tyr Leu Asn Thr Val Asn Gly Gln Cys
            515             520             525

Ala Asn Pro Leu Leu Glu Leu Thr Thr Gln Glu Asp Cys Cys Gly Ser
            530             535             540

Val Gly Ala Phe Trp Gly Val Thr Leu Cys Ala Pro Cys Pro Pro Arg
545             550             555             560

Pro Ala Ser Pro Val Ile Glu Asn Gly Gln Leu Glu Cys Pro Gln Gly
                565             570             575

Tyr Lys Arg Leu Asn Leu Thr His Cys Gln Asp Ile Asn Glu Cys Leu
            580             585             590

Thr Leu Gly Leu Cys Lys Asp Ala Glu Cys Val Asn Thr Arg Gly Ser
            595             600             605

Tyr Leu Cys Thr Cys Arg Pro Gly Leu Met Leu Asp Pro Ser Arg Ser
    610             615             620

Arg Cys Val Ser Asp Lys Ala Ile Ser Met Leu Gln Gly Leu Cys Tyr

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        625                    630                    635                    640
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Arg Ser Leu Gly Pro Gly Thr Cys Thr Leu Pro Leu Ala Gln Arg Ile
                 645                 650                 655

Thr Lys Gln Ile Cys Cys Cys Ser Arg Val Gly Lys Ala Trp Gly Ser
                 660                 665                 670

Glu Cys Glu Lys Cys Pro Leu Pro Gly Thr Glu Ala Phe Arg Glu Ile
             675                 680                 685

Cys Pro Ala Gly His Gly Tyr Thr Tyr Ala Ser Ser Asp Ile Arg Leu
             690                 695                 700

Ser Met Arg Lys Ala Glu Glu Glu Glu Leu Ala Arg Pro Pro Arg Glu
705                 710                 715                 720

Gln Gly Gln Arg Ser Ser Gly Ala Leu Pro Gly Pro Ala Glu Arg Gln
                 725                 730                 735

Pro Leu Arg Val Val Thr Asp Thr Trp Leu Glu Ala Gly Thr Ile Pro
             740                 745                 750

Asp Lys Gly Asp Ser Gln Ala Gly Gln Val Thr Thr Ser Val Thr His
             755                 760                 765

Ala Pro Ala Trp Val Thr Gly Asn Ala Thr Thr Pro Pro Met Pro Glu
    770                 775                 780

Gln Gly Ile Ala Glu Ile Gln Glu Glu Gln Val Thr Pro Ser Thr Asp
785                 790                 795                 800

Val Leu Val Thr Leu Ser Thr Pro Gly Ile Asp Arg Cys Ala Ala Gly
                 805                 810                 815

Ala Thr Asn Val Cys Gly Pro Gly Thr Cys Val Asn Leu Pro Asp Gly
             820                 825                 830

Tyr Arg Cys Val Cys Ser Pro Gly Tyr Gln Leu His Pro Ser Gln Ala
         835                 840                 845

Tyr Cys Thr Asp Asp Asn Glu Cys Leu Arg Asp Pro Cys Gln Gly Lys
    850                 855                 860

Gly Arg Cys Ile Asn Arg Val Gly Ser Tyr Ser Cys Phe Cys Tyr Pro
865                 870                 875                 880

Gly Tyr Thr Leu Ala Thr Ser Gly Ala Thr Gln Glu Cys Gln Asp Ile
                885                 890                 895

Asn Glu Cys Glu Gln Pro Gly Val Cys Ser Gly Gly Gln Cys Thr Asn
            900                 905                 910

Thr Glu Gly Ser Tyr His Cys Glu Cys Asp Gln Gly Tyr Ile Met Val
        915                 920                 925

Arg Lys Gly His Cys Gln Asp Ile Asn Glu Cys Arg His Pro Gly Thr
    930                 935                 940

Cys Pro Asp Gly Arg Cys Val Asn Ser Pro Gly Ser Tyr Thr Cys Leu
945                 950·                955                 960

Ala Cys Glu Glu Gly Tyr Arg Gly Gln Ser Gly Ser Cys Val Asp Val
                965                 970                 975

Asn Glu Cys Leu Thr Pro Gly Val Cys Ala His Gly Lys Cys Thr Asn
            980                 985                 990

Leu Glu Gly Ser Phe Arg Cys Ser  Cys Glu Gln Gly Tyr Glu Val Thr
    995                 1000                1005

Ser Asp Glu Lys Gly Cys Gln Asp Val Asp Glu Cys Ala Ser Arg
    1010                1015                1020

Ala Ser Cys Pro Thr Gly Leu Cys Leu Asn Thr Glu Gly Ser Phe
    1025                1030                1035

Ala Cys Ser Ala Cys Glu Asn Gly Tyr Trp Val Asn Glu Asp Gly
    1040                1045                1050

Thr Ala Cys Glu Asp Leu Asp Glu Cys Ala Phe Pro Gly Val Cys

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          1055                    1060                    1065

     Pro Ser Gly Val Cys Thr Asn  Thr Ala Gly Ser Phe  Ser Cys Lys
          1070                    1075                    1080

     Asp Cys Asp Gly Gly Tyr Arg  Pro Ser Pro Leu Gly  Asp Ser Cys
          1085                    1090                    1095

     Glu Asp Val Asp Glu Cys Glu  Asp Pro Gln Ser Ser  Cys Leu Gly
          1100                    1105                    1110

     Gly Glu Cys Lys Asn Thr Val  Gly Ser Tyr Gln Cys  Leu Cys Pro
          1115                    1120                    1125

     Gln Gly Phe Gln Leu Ala Asn  Gly Thr Val Cys Glu  Asp Val Asn
          1130                    1135                    1140

     Glu Cys Met Gly Glu Glu His  Cys Ala Pro His Gly  Glu Cys Leu
          1145                    1150                    1155

     Asn Ser His Gly Ser Phe Phe  Cys Leu Cys Ala Pro  Gly Phe Val
          1160                    1165                    1170

     Ser Ala Glu Gly Gly Thr Ser  Cys Gln Asp Val Asp  Glu Cys Ala
          1175                    1180                    1185

     Thr Thr Asp Pro Cys Val Gly  Gly His Cys Val Asn  Thr Glu Gly
          1190                    1195                    1200

     Ser Phe Asn Cys Leu Cys Glu  Thr Gly Phe Gln Pro  Ser Pro Glu
          1205                    1210                    1215

     Ser Gly Glu Cys Val Asp Ile  Asp Glu Cys Glu Asp  Tyr Gly Asp
          1220                    1225                    1230

     Pro Val Cys Gly Thr Trp Lys  Cys Glu Asn Ser Pro  Gly Ser Tyr
          1235                    1240                    1245

     Arg Cys Val Leu Gly Cys Gln  Pro Gly Phe His Met  Ala Pro Asn
          1250                    1255                    1260
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Gly Asp  Cys Ile Asp Ile Asp  Glu Cys Ala Asn Asp  Thr Met Cys
    1265              1270              1275

Gly Ser  His Gly Phe Cys Asp  Asn Thr Asp Gly Ser  Phe Arg Cys
    1280              1285              1290

Leu Cys  Asp Gln Gly Phe Glu  Ile Ser Pro Ser Gly  Trp Asp Cys
    1295              1300              1305

Val Asp  Val Asn Glu Cys Glu  Leu Met Leu Ala Val  Cys Gly Ala
    1310              1315              1320

Ala Leu  Cys Glu Asn Val Glu  Gly Ser Phe Leu Cys  Leu Cys Ala
    1325              1330              1335

Ser Asp  Leu Glu Glu Tyr Asp  Ala Gln Glu Gly His  Cys Arg Pro
    1340              1345              1350

Arg Gly  Ala Gly Gly Gln Ser  Met Ser Glu Ala Pro  Thr Gly Asp
    1355              1360              1365

His Ala  Pro Ala Pro Thr Arg  Met Asp Cys Tyr Ser  Gly Gln Lys
    1370              1375              1380

Gly His  Ala Pro Cys Ser Ser  Val Leu Gly Arg Asn  Thr Thr Gln
    1385              1390              1395

Ala Glu  Cys Cys Cys Thr Gln  Gly Ala Thr Trp Gly  Asp Ala Cys
    1400              1405              1410

Asp Leu  Cys Pro Ser Glu Asp  Ser Ala Glu Phe Ser  Glu Ile Cys
    1415              1420              1425

Pro Ser  Gly Lys Gly Tyr Ile  Pro Val Glu Gly Ala  Trp Thr Phe
    1430              1435              1440

Gly Gln  Thr Met Tyr Thr Asp  Ala Asp Glu Cys Val  Ile Phe Gly
    1445              1450              1455

Pro Gly  Leu Cys Pro Asn Gly  Arg Cys Leu Asn Thr  Val Pro Gly
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              1460                    1465                    1470


   Tyr Val  Cys Leu Cys Asn Pro  Gly Phe His Tyr Asp  Ala Ser His
        1475                1480                1485


   Lys Lys  Cys Glu Asp His Asp  Glu Cys Gln Asp Leu  Ala Cys Glu
        1490                1495                1500


   Asn Gly  Glu Cys Val Asn Thr  Glu Gly Ser Phe His  Cys Phe Cys
        1505                1510                1515


   Ser Pro  Pro Leu Thr Leu Asp  Leu Ser Gln Gln Arg  Cys Met Asn
        1520                1525                1530


   Ser Thr  Ser Ser Thr Glu Asp  Leu Pro Asp His Asp  Ile His Met
        1535                1540                1545


   Asp Ile  Cys Trp Lys Lys Val  Thr Asn Asp Val Cys  Ser Glu Pro
        1550                1555                1560


   Leu Arg  Gly His Arg Thr Thr  Tyr Thr Glu Cys Cys  Cys Gln Asp
        1565                1570                1575


   Gly Lys  Ala Trp Ser Gln Gln  Cys Ala Leu Cys Pro  Pro Arg Ser
        1580                1585                1590


   Ser Glu  Val Tyr Ala Gln Leu  Cys Asn Val Ala Arg  Ile Glu Ala
        1595                1600                1605


   Glu Arg  Glu Ala Gly Val His  Phe Arg Pro Gly Tyr  Glu Tyr Gly
        1610                1615                1620


   Pro Gly  Pro Asp Asp Leu His  Tyr Ser Ile Tyr Gly  Pro Asp Gly
        1625                1630                1635


   Ala Pro  Phe Tyr Asn Tyr Leu  Gly Pro Glu Asp Thr  Val Pro Glu
        1640                1645                1650


   Pro Ala  Phe Pro Asn Thr Ala  Gly His Ser Ala Asp  Arg Thr Pro
        1655                1660                1665
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```
Ile Leu  Glu Ser Pro Leu Gln  Pro Ser Glu Leu Gln  Pro His Tyr
    1670              1675              1680


Val Ala  Ser His Pro Glu Pro  Pro Ala Gly Phe Glu  Gly Leu Gln
    1685              1690              1695


Ala Glu  Glu Cys Gly Ile Leu  Asn Gly Cys Glu Asn  Gly Arg Cys
    1700              1705              1710


Val Arg  Val Arg Glu Gly Tyr  Thr Cys Asp Cys Phe  Glu Gly Phe
    1715              1720              1725


Gln Leu  Asp Ala Ala His Met  Ala Cys Val Asp Val  Asn Glu Cys
    1730              1735              1740


Asp Asp  Leu Asn Gly Pro Ala  Val Leu Cys Val His  Gly Tyr Cys
    1745              1750              1755


Glu Asn  Thr Glu Gly Ser Tyr  Arg Cys His Cys Ser  Pro Gly Tyr
    1760              1765              1770


Val Ala  Glu Ala Gly Pro Pro  His Cys Thr Ala Lys  Glu
    1775              1780              1785


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Gln Arg Asp Pro Val Gly Arg Tyr Glu Pro Ala Gly Gly Asp Ala Asn
1             5               10              15


Arg Leu Arg Arg Pro Gly Gly Ser Tyr Pro Ala Ala Ala Ala Ala Lys
            20              25              30


Val Tyr Ser Leu Phe Arg Glu Gln Asp Ala Pro Val Ala Gly Leu Gln
        35              40              45


Pro Val Glu Arg Ala Gln Pro Gly Trp Gly Ser Pro Arg Arg Pro Thr
    50              55              60
```

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Glu Ala Glu Ala Arg Arg Pro Ser Arg Ala Gln Gln Ser Arg Arg
65                  70                  75


<210>   4
<211>   70
<212>   PRT
<213>   Homo Sapiens

<400>   4

Gln Arg Asp Pro Val Gly Arg Tyr Glu Pro Ala Gly Gly Asp Ala Asn
1               5               10              15


Arg Leu Arg Arg Pro Gly Gly Ser Tyr Pro Ala Ala Ala Ala Ala Lys
            20              25              30


Val Tyr Ser Leu Phe Arg Glu Gln Asp Ala Pro Val Ala Gly Leu Gln
        35              40              45


Pro Val Glu Arg Ala Gln Pro Gly Trp Gly Ser Pro Arg Arg Pro Thr
    50              55              60


Glu Ala Glu Ala Arg Arg
65              70


<210>   5
<211>   62
<212>   PRT
<213>   Homo Sapiens

<400>   5

Gln Arg Asp Pro Val Gly Arg Tyr Glu Pro Ala Gly Gly Asp Ala Asn
1               5               10              15


Arg Leu Arg Arg Pro Gly Gly Ser Tyr Pro Ala Ala Ala Ala Ala Lys
            20              25              30


Val Tyr Ser Leu Phe Arg Glu Gln Asp Ala Pro Val Ala Gly Leu Gln
        35              40              45


Pro Val Glu Arg Ala Gln Pro Gly Trp Gly Ser Pro Arg Arg
    50              55              60
```

```
<210>  6
<211>  15
<212>  PRT
<213>  Homo sapiens

<400>  6

Leu Arg Arg Pro Gly Gly Ser Tyr Pro Ala Ala Ala Ala Ala Lys
1               5                   10                  15


<210>  7
<211>  13
<212>  PRT
<213>  Homo sapiens

<400>  7

Arg Pro Gly Gly Ser Tyr Pro Ala Ala Ala Ala Ala Lys
1               5                   10


<210>  8
<211>  20
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<213>  Homo sapiens

<400>  8

Val Tyr Ser Leu Phe Arg Glu Gln Asp Ala Pro Val Ala Gly Leu Gln
1               5                   10                  15


Pro Val Glu Arg
            20


<210>  9
<211>  14
<212>  PRT
<213>  Homo sapiens

<400>  9

Glu Gln Asp Ala Pro Val Ala Gly Leu Gln Pro Val Glu Arg
1               5                   10


<210>  10
<211>  9
<212>  PRT
<213>  Homo sapiens
```

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<400> 10

```
Ala Gln Pro Gly Trp Gly Ser Pro Arg
1               5
```